26296

Study in the field of cccrdination-... \$\frac{3}{190}\frac{61}{003}\frac{009}{009}\frac{019}{019}\$

polymers with flexible chains, which contained  $-(CH_2)_n$  or  $[O(CH_2)_2]_n$ 0groups between the benzene nuclei. For this purpose, three aromatic bis- $\beta$ -diketones were synthesized: 4,4'-bis(acetyacetyal) diphenyal ethane (I); 4,4'-bis(acetoscetyl) ethylene diphenyl ether (II); and 4,4'-bis-(acetcacetyl) diphenyl diethylene glycol ether (III). Synthesis was made according to the author's certificate of the USSR, no. 126488, 1959, by acetoacetylating the aromatic compounds by means of acetanhydride in the presence of BF3. As compared to Claisen's condensation, the reaction is one-staged and results in a high yield. To prevent formation of intermediates, a large excess of acetanhydride is necessary, molar ratio 1:20 - 30. I (melting point 147 - 148°C) was obtained in a yield of 10% referred to diphenyl ethane. The reaction temperature was 40 - 50°C. The infrared spectrum confirmed the structure of p-substituted bis-fdiketone of diphenyl ethane (for keto-enols, characteristic absorption at 1600 cm<sup>-1</sup>, for 1,4-substituted benzene nuclei, characteristic absorption at 845, and 790 cm<sup>-1</sup>). As a by-product (10%), diphenyl ethane-Card 2/8

26296

S/190/61/003/008/009/019

Study in the field of coordination-...

\$\beta\$-diketone (melting point 81.5 - 82.5°C) was obtained. II (melting point 169 - 170°C) was obtained in optimum yield (16%) at -10°C. The ethylene diphenyl ether, brought into reaction with acetanhydride, was synthesized in the autoclave (150°C, 50 atm) by reaction with natrium phenolate and 1,2-dichloro ethane. III (melting point 125.5 - 126°C, yield 7-9%) was obtained at a reaction temperature of from -5 to +5°C. Diethylene glycol diphenyl ether was synthesized as initial compound by reaction

of Na phenolate with  $\beta$ ,  $\beta$  -dichloro diethyl ether (200°C, 50 atm). Since the compounds had not yet been described, the authors synthesized I also by Claisen condensation and found it to be identical with the compound obtained by direct acetoacetylation. Compounds II and III could not be produced according to Claisen. By reacting I, II, and III with acetates of bivalent metals, the authors obtained the compounds given in the Table. In this, they made the following observations: The solubility of the polymer depends on the ionic radius of the metal which forms the polymer chain. It was found that introduction of the groups  $-CH_2CH_2$ -; Card 3/8

Study in the field of coordination-... S/190/61/003/008/009/019

-OCH<sub>2</sub>CH<sub>2</sub>O-, and -OCH<sub>2</sub>CH<sub>2</sub>OCH<sub>2</sub>CH<sub>2</sub>O between the benzene nuclei resulted in coordination-chain polymerization. The molecular weights, determined ebullioscopically, were at about 2000 - 3000. The films produced at 200 - 300°C and 50 atm were brittle. The thermomechanical curves and the X-ray picture of the beryllium compounds of II confirmed the crystal structure of the polymers. There are 3 figures, 1 table, and 6 references: 5 Soviet and 1 non-Soviet.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy AN SSSR (Institute of Elemental Organic Compounds AS USSR)

SUBMITTED: October 18, 1960

Card 4/8

### BASNEVA, V.A.

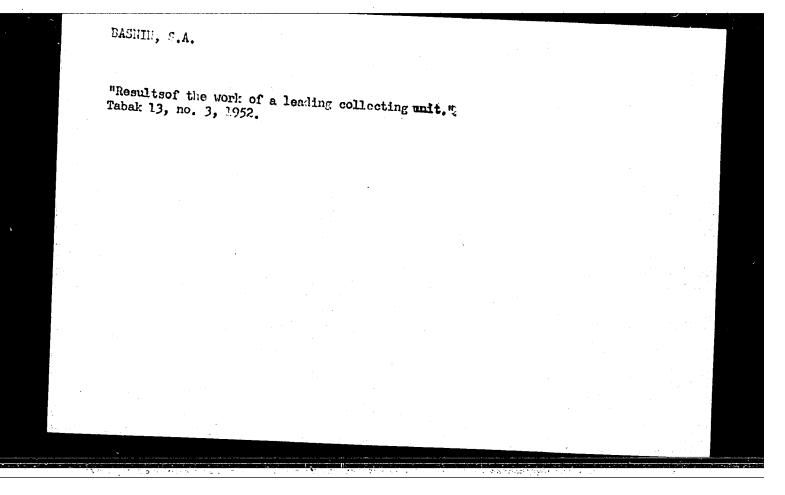
Hygienic aspects of work connected with the repair, graduation, and operation of mercuric devices. Gig. 1 san. no.10:47 0 '55 (NERCURY INDUSTRY--HYGIENIC ASPECTS) (MLRA 9:1)

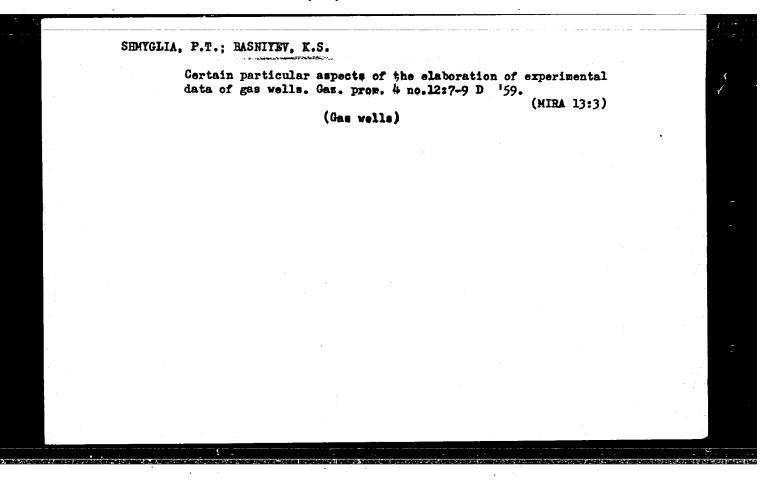
BASNIN, R.V., inzhener-kapitan 1-go ranga; STAVITSKIY, V.T., inzhener-kapitan 1-go ranga

Know well the theory of a ship and its seaworthiness. Mor. sbor. 47 no.5:60-62 My '64. (MIRA 18:6)

BASNIN, R.V., inchemer-kapitan 1-go ranga; IOSSA, V.A., kapitan 1-go ranga sapasu

Training of students of naval schools. Mor. sbor. 48 no.5: 72-77 by '65. (MIRA 18:6)

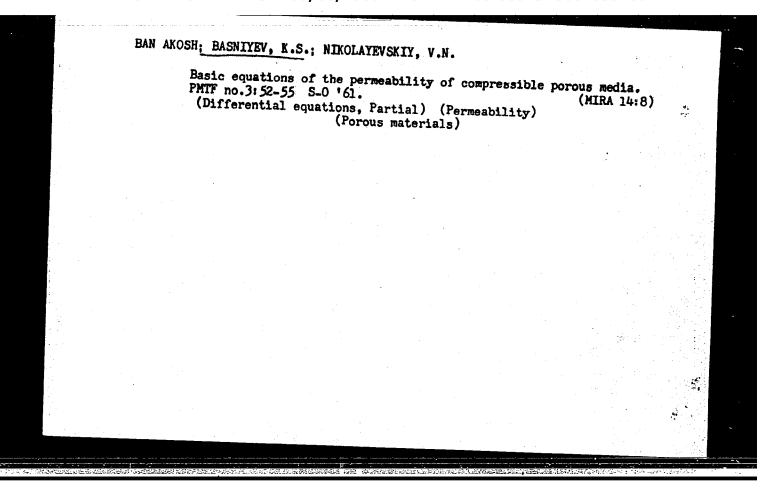


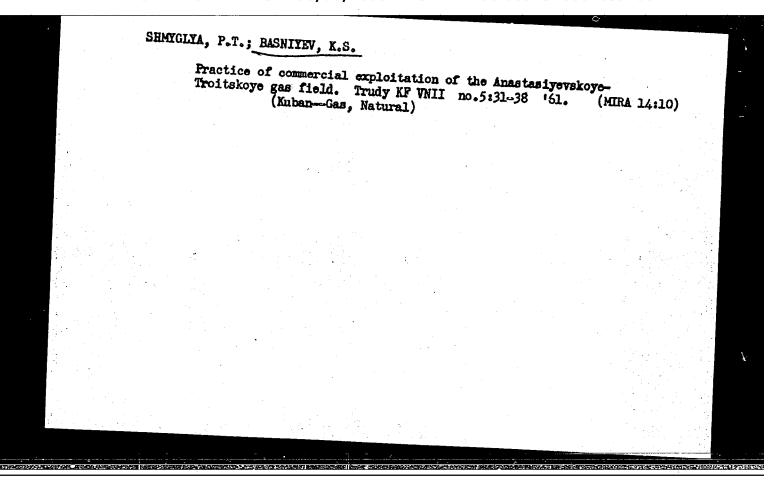


BASNIYEV, K.S.; TSYBUL'SKIY, G.P.

Using Leibenson's transformation to process pressure build-up curves in gas wells. Izv.vys.ucheb.zav.;neft' i gaz 7 no. 1: 35-38 '64. (MIRA 17:7)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti im,akad.Gubkina.





BASNIYEV, K.S.; GUREVICH, G.R.; MIKOLAYEVSKY, V.N. (Moscow)

SOn gas-condensate flow in porous medias

report presented at the 2nd All-Union Congress on Theoretical and Applied

Mechanics, Moscow, 29 January - 5 February 1964

# Stationary inflow of a real gas to a well in a deformed bed. Nauch.-tekh. sbor. po dob. nefti no.25:74-92 '64. 1. Moskovakiy ordena Trudovogo Krasnogo Mnameni institut nefte-khimicheskoy i gasovoy promyshlennosti im. akademika Gubkina.

# BASHY F. MIDP.

Various duties of public health education in the struggle against diseases in industry. Cesk. xdravot. 5 no.1:45-47 Jan 57.

1. Krajsky osvetovy lekar, Brno.
(PUBLIC HEALTH, educ.
role in prev. of indust. occup. dis. (Cg))
(OCCUPATIONAL DISEASES, prev. & control
indust., role of public health educ. (Cg))

Reconstruction of Bratislava Castle. p. 125.
No. 4, Apr. 1955.

SOURCE: East European Aucessions List. (KEAL) Library of Congress.
Vol. 5, No. 8, August 1956.

BASOK, M	i. Ya.		ATTENCE AND DESCRIPTION OF THE PROPERTY OF THE	
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		fraction of beta- and g pared with the serum of makes of movement of in make of the serum of pa- ingatitis show values wi the normal.	dic 1	in of Pub Health unse District of the park of the many while the m
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		April 6	tion as a real	restigation in the state of the
		ction of beta- and gamma-globulins as com- ed with the serum of healthy persons. The es of movement of fractions in electrophors s of the serum of patients with infectious atitis show values which do not differ from normal.	Electrophoretic investigation of blood serum is disease shows regular lowering of albumin level and lowering of the albumin-globulin coeff. There is as a rule increase of the 19276 USER/Medicine - Infectious Diseases Jul/Ang 5 (Contd.)	UNREALIST - Infectious Diseases Juliang 5 Electrophoretic Investigations of Blood Berum Proteins in Infectious Hepatitis (Botkin's Disease), " I. A. Oyvin, M. Ya. Basok, V. I. Oyvin, M. Ya. Basok, M. Ya.
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CABASOK, M. Ya.

118

KHACHATUROV, Khristofor Georgiyevich; LYNDIN, Nikolay Ivanovich; SEMENOV Yuriy Aleksandrovich; BASOK, Semen Izrailevich; FAVORSKIY, V.Ye., red.; ALAHYSHEVA, N.A., red.izd-va; GVIRTS, V.L., tekhm. red.

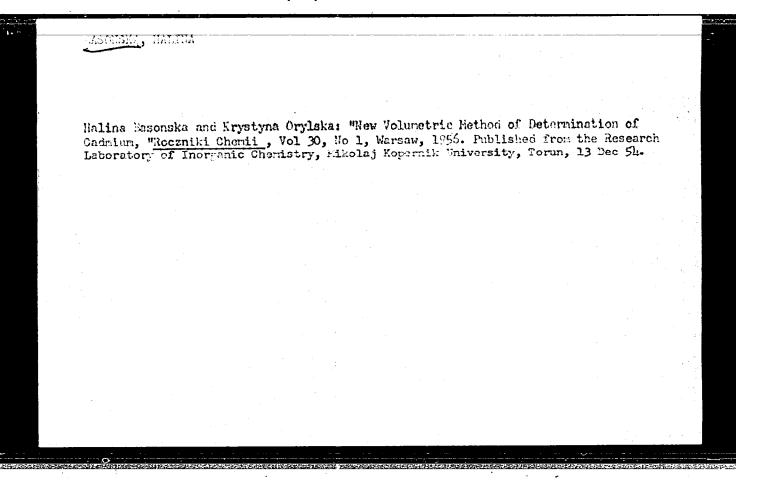
[Practices of the "Avtoarmatura" Plant in the bending of contacts and the efficient organization of die storage]
Opyt zavoda "Avtoarmatura" po gibke kontaktov i ratsional'noi organizatsii khraneniia shtampov. Leningrad, 1963. 11 p.
(Leningradskii dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Goriachaia i kholodnaia obrabotka metallov davleniem, no.7)

(MIRA 17:3)

# BASONIK. P.M., inzhener

Furnace with pseumatic mechanical stokers. Der.prom. 4 no.4: 27-28 Ap 155. (MLRA 8:6)

1. Lemingradskaya mebel'maya fabrika mo.3 (Furmaces) (Stokers, Mechanical)



ANDRIANOV, W., BASOV, A.

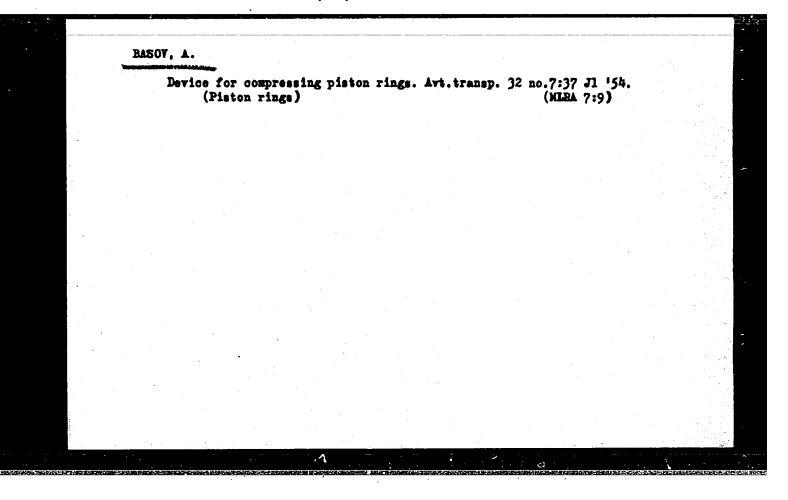
Possibilities for increasing labor productivity in petroleum refining. Sots. trud no.10:51-55 0 \*56. (MIRA/9:11) (Petroleum --Refining)

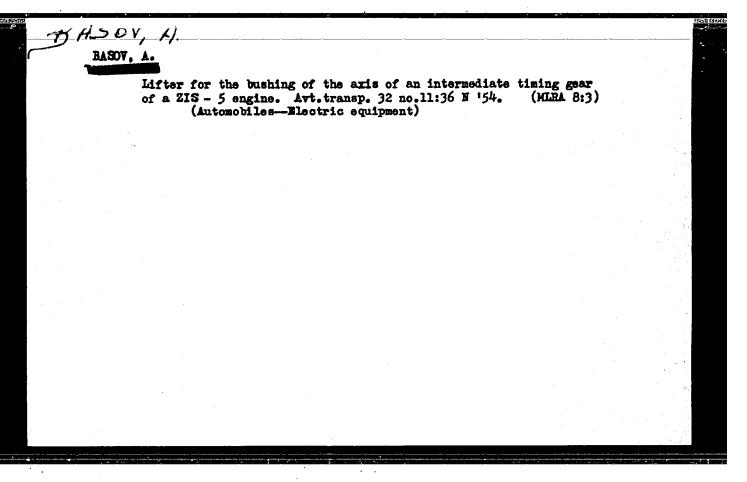
BASOV, A., kand. tekhn. nauk; IZAKOV, F., insh.

High-frequency currents increase the germinability of seeds. Mauka i pered, op. v sel'khos. 18 no.2:54-56 F '58. (MIRA 11:3)

1. Chelyabinskiy institut mekhanisatsii i elektrifikatsii sel'skogo khosyaystva.

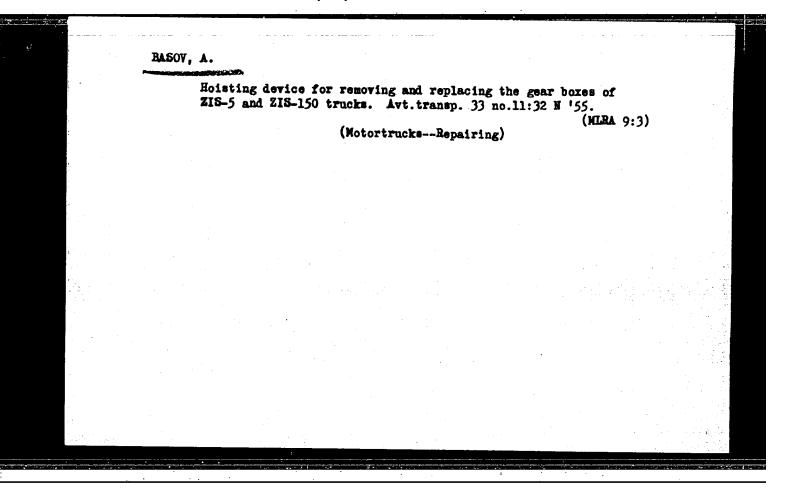
(Germination) (Plants, Effect of electricity on)





BASOV.	A		
	Assembly knock-out rod. Avt.transp.32 no.12:2 (Automobiles-Repairing)	29 D 154. (MIRA 8:3)	
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			(1,2,3,3)

# Using out-of-order timing gear covers of ZIS-5 engines. Avt. transp. 33 no.5:34 My '55. (MIRA 8:8) (Automobiles-Engines)



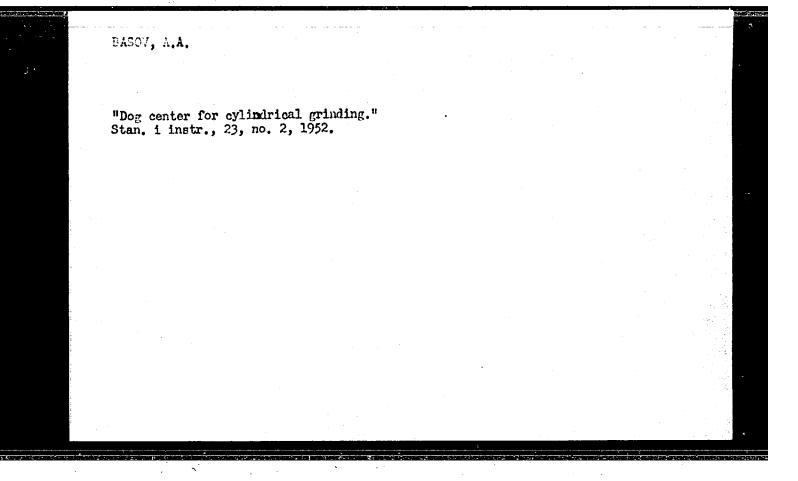
# BASOV, A.

Controlled by an instrument. Za besop. dvish. 5 no.426 Ap 163. (MIRA 16:4)

1. Machal'nik proisvodstvenno-tekhnicheskogo otdela avtobasy Mo. 1 Upravleniya torgovogo transporta. (Automobiles-Maintenance and repair)

Basov, A. - "Mechanical sculptor (Electric duplicating rachine fully-automatic of T. N. Sokolov, Survey)," Illustrated by V. Buravlev, Znaniye-sila, 1928, No. 11, p. 5-8.

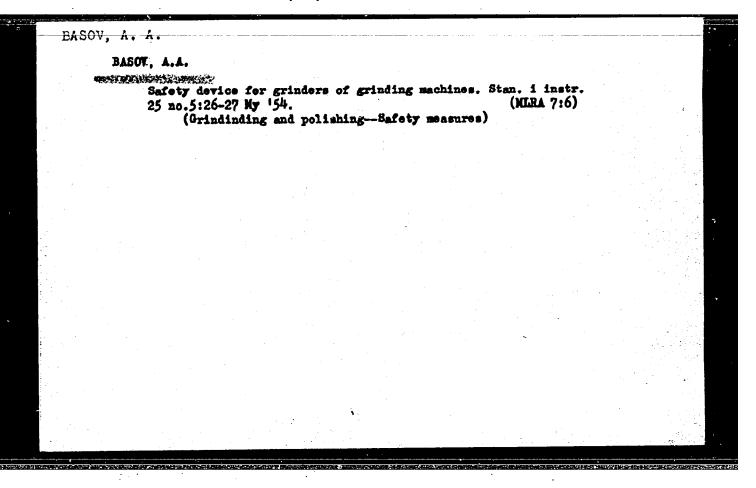
S0: U-3850, 16 June 53, (Letopis 'Zhurnal 'nykh Statey, No. 5, 1949).



"Combination broach for groove broaching and bevelling."
Stan. 1 instr. 23 no. 6, 1952

- 1. BASOV, A. A.; N. N. MAKLAKOV
- 2. USSR (600)
- 4. Milling Machines
- 7. Cutting of grooved shafts with cut-away grooves. Stan. i instr. 23 no. 8, 1952

9. Monthly List of Russian Accessions, Library of Congress, January, 1953, Unclassified.



BASOV, A. A. USSR/Miscellaneous - Industrial Processes Card 1/1 : Basov, A. A. Author : Improvement in immeller construction of a dust collector Title Periodical : Stan. i Instr., No. 5, 27 - 28, May 1954 : The improvement in working conditions of a workshop, achieved through cer-Abstract tain modifications in the impeller system of dust collectors, is discussed. The effectiveness of dust collectors with modified impellers increased by more than 2.5 times. Drawing. Institution : ... Submitted :

Upper/Miscellaneous - Packing-glands

Card : 1/1

Authors : Basov, A. A.

Title : The use of lead packing-glands on grinding machines.

Periodical : Stan. i Instr., Ed. 6, 37, June 1954

Abstract : The use of lead packing-glands on grinding machines, and their comparison with leather-type glands, is discussed. Methods for installing the glands on machine shafts, and factors resulting in a saving of oil are mentioned. Diagrams.

Institution : ...

Submitted : ...

E	SOV, A. A.	
	USSR/Enginee	ring - Protective coatings
	Card 1/1	Pub. 103 - 20/23
	Authors	, Basov, A. A.
	<b>Title</b>	Methods for insulating tools against acid action, during normal chemical poisoning
	Periodical	: Stan. i instr. 8, page 38, Aug 1954
	Abstract	A report concerning the use of a special glue, consisting of cellulose dilluted in acetone, for insulating tools against acid action during normal chemical poisoning is presented.
	Institution Submitted	
	TOTAL TOTAL	

## "APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203910011-4

BASOV, A.A.

USSR/ Engineering - Machine tool

Card 1/1 Pub. 103 - 13/25

Authors

Basev, A. A.

Title

Changing the design of a spindle-section housing a cone roller bearing

Periodical !

Stan. i instr. 1, page 29, Jan 1955

Abstract

The modernization of a spindle section on universal milling machines for an easier replacement and adjustment of conc roller bearings, is discussed. Drawing.

Institution: .....

Submitted : ....

## "APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203910011-4

Basov. A.A.

USSR/ Miscellaneous - Nameplates

Card 1/1 Pub. 103 - 18/25

Authors : Basov, A. A.

Title ! The production of nameplates and operational tables and diagrams

for lathes

Periodical: Stan. i instr. 1, page 32, Jan 1955

Abstract : The production, chemical treatment, emulsion plating and drying

of aluminum nameplates and operational tables and diagrams for

lathes, is briefly described.

Institution : .....

Submitted : .....

## "APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203910011-4

USSM/ Engineering - Machine tools

Card 1/1 Pub. 103 - 12/19

Authors i Basov. A. A.

Title : Extension of the service life of lathe cutter holders

Periodical : Stan. i instr. 2. page 32. Feb 1955

Abstract : Brief report is presented on how to extend the service life of lathe tool holders (cutter holders). Drawing.

Institution: .....

Submitted: .....

# BASOV, A.I.

Generalizing the experience acquired in operating and improving the equipment of nonferrous metal ore dressing plants. Toyet. met. 38 no.4291-93 Ap 165. (MIRA 1885)

BASOV, Aleksandr Ivanovich; TROITSKIY, A.V., red.; YEZDOKOVA, M.L., red. izd-va; KARASEV, A.I., tekhm. red.

[Mechanical equipment of plants of heavy nonferrous metals]
Mekhanicheskoe oborudovanie zavodov tiazhelykh tsvetnykh
metallov. Moskva, Gos. nauchno-tekhn. i zd-vo lit-ry po chernoi
i tsvetnoi metallurgii, 1961. 699 p. (MIRA 14:9).

(Nonferrous metal industries—Equipment and supplies)

BASOV, A. M.

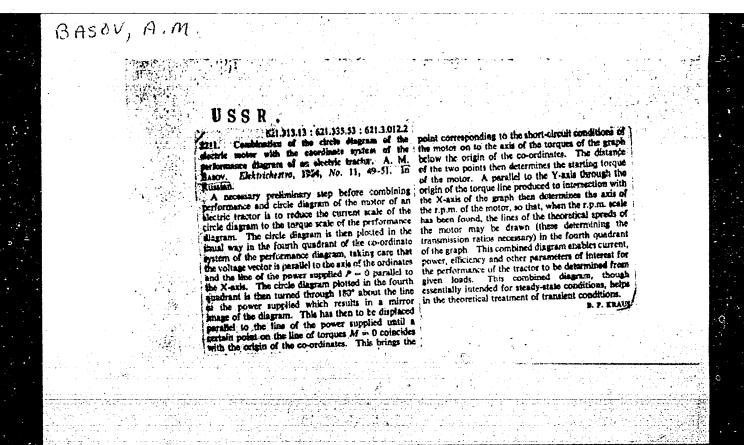
Cand Tech Sci

Dissertation: "Investigation of the Possibility for Application of Single-Phase Electric Motors for Driving Agriculture Machines."

27 June 49

Moscow Inst for Mechanization and Electrification of Agriculture imeni V. M. Molotov

# SO Vecheryaya Moskva Sum 71



#### "APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203910011-4

- BASOV, A.M.

AUTHOR:

Sergeyev, A. S., Docent

105-58-4-33/37

TITLE:

Dissertations (Dissertatsii)

PERIODICAL:

Elektrichestvo, 1958, Nr 4, pp. 92-93 (USSR)

ABSTRACT:

For the Degree of Candidate of Technical Sciences 1946-1954. At the Moscow Institute for Mechanization and Electrification of Agriculture (Moskovskiy institut mekhanizatsii i elektri-

fikatsii sel'skogo khozyaystva).

P. F. Skvortsov, on October 23, 1946: "Asynchronous Generator With Condenser Excitation". Official opponents were: Doctor of Technical Sciences Professor Ye. V. Nitusov and Doctor of

Technical Sciences Professor Yu. S. Chechet.

N. P. Stepanov, on June 25, 1947: "The Problem of Using Monophase Transformers in Networkks With Small Load Density". Official opponents were: Professor V. N. Stepanov, Doctor of Technical Sciences Professor Ye. V. Nitusov, and Candidate of

Technical Sciences Docent V. N. Andrianov.

D. V. Abramchev, in October 1948: "Performance of Three-Phase Asynchronous Motor in Monophase Condenser Operation". Official opponents were: Doctor of Technical Sciences Professor Ye. V.

Card 1/4

Nitusov and Member of the Academy VASKhNIL M. O. Yevreinov.

Dissertations

105-58-4-33/37

A. M. Basov, on October 5, 1949: "Investigation of the Possibilities for the Use of Monophase Motors for Driving Agricultural Machinery". Official opponents were: Doctor of Technical Sciences P. N. Listov and Candidate of Technical Sciences N. P. Gorbunov.

Ye. M. Cheburkina, on June 30, 1950: "Complex Use of Motors in Agriculture". Official opponents were: Doctor of Technical Sciences Professor P. N. Listov and Doctor of Technical Sciences I. A. Budzko.

M. S. Levin, on January 5, 1951: "Problems of Parallel Operation of Electric Power Stations in the Power Supply to Agricultural Consumers". Official opponents were: Doctor of Technical Sciences Professor D. A. Gorodskiy and Candidate of Technical Sciences R. M. Kantor.

S. G. Kuzanov, on December 21, 1951: "New Methods for the Electric Calculation of Agricultural High-Voltage Networks With Steel Lines". Official opponents were: Doctor of Technical Sciences I. A. Budzko and Professor V. N. Stepanov.

V. K. Plyugachev, on December 21, 1951: "Problems of the Calculation of Electric Networks With Steel Wires". Official opponents were: Doctor of Technical Sciences I. A. Budzko and Candidate of Technical Sciences Docent S. A. Ul'yanov.

Card 2/4

Dissertations

105-58-4-33/37

S. A. Nacharyan, on April 25, 1952: "Problems of the Dynamic Stability of Local Hydroelectric Power Stations". Official opponents were: Doctor of Technical Sciences Professor N. A. Sazonov and Candidate of Technical Sciences R. M. Kantor. I. V. Karpov, on June 27, 1952: "Investigation of a Three--Phase Rectifying Scheme in Plants With Forced Excitation in Electric Power Stations for Agricultural Purposes in the Case of Asymmetric Short-Circuits". Official opponents were: Doctor of Technical Sciences I. A. Budzko and Candidate of Technical Sciences I. V. Kodkind. V. V. Yurasov, on April 3, 1953: "The Use of Condensers for the Maintainance of Voltage States in Rural Networks". Official opponents were: Doctor of Technical Sciences A. G. Zakharin and Candidate of Technical Sciences Docent P. F. Skvortsov.

L. G. Prishep, on May 22, 1953: "Investigation of Monophase Short-Circuits and of Safety Earthenings in an Electro--Tractor Aggregate". Official opponents were: Doctor of Technical Sciences I. A. Budzko and Doctor of Technical Sciences A. G. Zakharin.

Card 3/4

L. V. Nikonov, on January 15, 1954: "Repair of Transformers

Dissertations

105-58-4-33/37

in Agricultural Production". Official opponents were: Doctor of Technical Sciences Professor P. N. Listov and Professor S. A. Burguchev.

V. T. Sergovantsev, on February 26, 1954: "Problems of the Remote Control of Local (Rural) Energy Systems". Official opponents were: Doctor of Technical Sciences Professor L. Ye. Ebin and Candidate of Technical Sciences M. I. Karlinskaya.

AVAILABLE:

Library of Congress

1. Electrical engineering-Reports

Card 4/4

BASOV, A.M., kand.tekhn.nauk; IZAKOV, F.Ya., inzh.; SHMIGEL!, V.N., inzh.; YASBOV, G.A., inzh.

Grain cleaning in the electric field. Mekh.i elek.sots. sel'-khos. 17 no.5:25 '59. (MIRA 12:12)

1. Chelyabinskiy institut mekhanisatsii i elektrifikatsii sel'skogo khosyaystva.

(Grain--Cleaning)

BASOV, Anatoliy Mikhaylovich, kand.tekhn.nauk, dotsent; KOVALEV, Ivan Yegorovich, aspirant

Starting conditions of electric motors driving machinery with crank gear mechanisms. Izv. vys. ucheb. zav.; elektromekh. 3 nc.9:112-117 '60. (MIRA 15:5)

l. Kafedra primeneniya elektrichestva v sel¹skom khozyaystve chelyabinskogo instituta mekhanizatsii i elektrifikatsii sel¹skogo khozyaystva.

(Electric driving)

BASOV, A.M., kand.tekhn.nauk; KOVALEV, I.Ye., inzh.

Electromagnetic transients in asynchronous drives with variable loads. Mekh. i elek. sots. sel'khoz. 19 no.2:48-50 '61. (MIRA 14:3)

1. Ghelyabinskiy institut mekhanizatsii i elektrifikatsii sel'skogo khosyaystva. (Electric motors, Induction)

BASOV, A.M.; SHMIGEL, V.N.						
	Measuring Izm. tekh	the specific no.10:46-48	inductive ০ 'গ্ৰ. (Electric	capacitance of measurements)	separate grains. (MIRA 14:	(11)
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S/196/61/000/010/025/037 E194/E155

AUTHORS: Basov, A.M., and Kovalev, I.Ye.

TITLE: Electromagnetic transient processes in induction

drives with variable load

PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika, no.10, 1961, 9-10, abstract 10K 68. (Mekhaniz. i elektrifik. sots. s. kh. no.2, 1961, 48-50)

TEXT: The article analyses the need to allow for the influence of the electromagnetic transient process during alteration of the load on an induction motor. Here allowance is made not only for the load frequency, but for the flywheel mass of the drive and the amplitude of the variable component of the load torque. To calculate transient conditions the actual drive is replaced by an equivalent circuit. Calculated curves are given that characterise the degree of change in the variable component of torque as a function of the load frequency. The curves apply to drives with various ratios of mechanical to electromagnetic time-constant, both with and without allowance for the electromagnetic transient process. It is observed that when the ratio Card 1/2

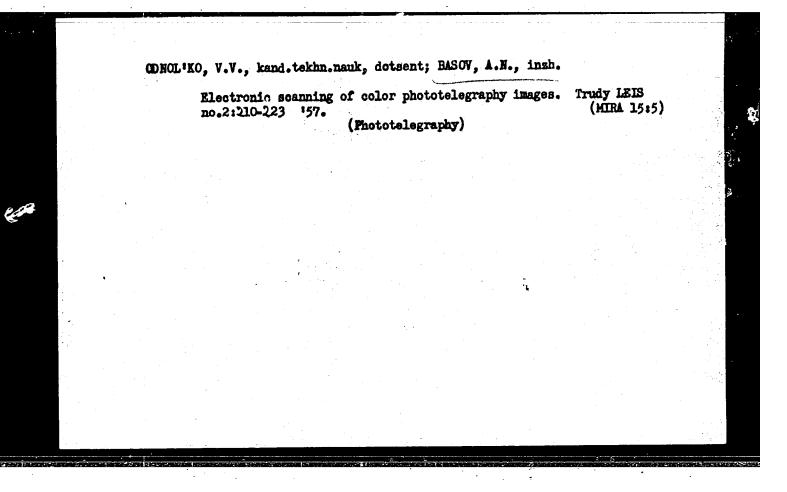
Electromagnetic transient processes... S/196/61/000/010/025/037 E194/E155

of electromagnetic to mechanical time-constants is about 0.2-0.1, the effect of the electromagnetic transient process is negligible at load fluctuations below 20 s<sub>k</sub> (slip frequency); and if there are large flywheel masses it is negligible whatever the frequency of fluctuation. When the time-constants mentioned above have a certain limiting ratio, the static mechanical characteristics of an induction motor can be used to derive its transient performance under load fluctuations of any frequency.

4 literature references.

Abstractor's note: Complete translation.

Card 2/2



Basov, A. N.

93-5-11/19

AUTHORS:

Basov, A. N., Andrianov, V. M.

TITLE:

Optimum Capacity of New Refineries (Ob optimal'noy moshchnosti movykh neftepererabatyvayushchikh zavodov)

PERIODICAL:

Neftyanoye Khozyaystvo, 1957, Nr 5, pp. 43-47 (USSR)

ABSTRACT:

One of the most important principles underlying the distribution of socialist production is that it should be located as close as possible to the sources of raw materials, fuel and the consumer. It is an established fact that it is more economical to refine oil in areas of demand than to refine it in the vicinity of the oil field and then transport the product to the areas of demand. The bringing of refineries closer to the consumer does not mean that their capacity should remain unchanged. It only eliminates the disproportion between production and consumption of petroleum products in the

unchanged. It only eliminates the disproportion between production and consumption of petroleum products in the economic areas of the country. Refineries are increasing and will continue to increase their capacity in order to meet the 1960 goals. Experience at home and abroad shows

Card 1/6

that a twofold increase in the capacity of a refinery

Optimum Capacity of New Refineries (Cont.)

accompanied by a simultaneous twofold expansion of technological units and supporting installations makes it possible to cut capital investment by 25%, operational cost by 10-50% and raise operational efficiency by approximately 70%. Selection of the optimum capacity for a refinery must be based on concrete conditions of the refining industry, which can be determined by an increase in demand for petroleum products in individual areas of the country. The capacity of each new refinery should be in line with the growth of the network of the points of demand for petroleum products. A too great an expansion of the refining capacity may cause a considerable increase in operational and capital expenditures for the transportation of petroleum products. which may not be offset by the savings effected by the expansion of the refinery. The distances to be covered in transporting the finished products depend on the area and the shape of the zone which is to be supplied. Two different zone shapes are discussed. One, a circular, represents an area where points of demand for petroleum products are close to each other and are evenly dispersed. This type of distribution is typical of the European part of the USSR. The average run in a circular zone

Card 2/6

Optimum Capacity of New Refineries (Cont.)

equals 2/3 R (radius). This capacity of a refinery is increased from 3 to 6 and then to 12 million tons, i. e., when the number of refineries is reduced from 4 to 2 and then to 1, the area to be supplied increases inversely, i.e.,  $S_3 = 2S_2 = 4S_1$ , while the radius of each circular zone and consequently, the average run with supplies increases as follows:  $R_2$ ;  $R_2$ ;  $R_1 = 2$ :  $\sqrt{2}$ : 1. While circular zones are taken to represent the European part of the USSR, the eastern part is represented by long rectangular zones due to the approximate distribution of demand centers. In rectangular zones the average runs would be directly proportional to the area. Although in practice the zone will not be exactly circular or rectangular, yet the margin of error will be small enough to justify such generalization. In calculating the capital and operational expenditures per ton - kilometer, it has been assumed that the ratio of the volume of petroleum products moved by pipeline to the volume of petroleum products moved by pipeline to the volume of petroleum products transported by rail is 7: 3. The data in the table show that the Card 3/6

Optimum Capacity of New Refineries (Cont.)

capital and operational expenditures per ton of petroleum products supplied increase with an increase in the capacity of the refinery. Each twofold increase in the capacity of a refinery results in a 40% increase in capital and operational expenditures per ton of products supplied in a circular zone and in a corresponding 100% increase if the products are transported in a rectangular zone. Since the absolute increase in capital and operational sums spent on transportation is, however, not very large, it is covered by the savings effected in capital and operational sums spent on refineries. Resultant curves representing the change of capital and operational expenditures per ton of petroleum products delivered to the consumers are shown in Figs. 1 and 2. In the case of a circular zone of demand the economy effected will be greater in those instances in which a twofold increase in the capacity of the refinery is accompanied by a twofold expansion of the capacity of the supporting technological installations. In the case of a rectangular zone of demand, when the capacity of a refinery is increased twice but there is no corresponding twofold increase in the capacity of the supporting technological installations, the Card 4/6

Optimum Capacity of New Refineries (Cont.)

savings in capital and operational expenditures are not large enough to offset the increase in sums spent on the transportation of petroleum products, Hence, in this case it is necessary to double also the capacity of the supporting installations. It should be noted that the above mentioned figures and assumptions are characteristic of a situation planned for 1960 when the first new series of refineries is to be put into operation. The 1965 estimated demand for petroleum products in the eastern part of the Soviet Union is at least 5 t/km<sup>2</sup>. The curves in Table 3 show the changes in economic indices representing the production and the supply of motor fuels. The diagram shows that in connection with the sharp increase in the density of the points of demand for petroleum products throughout Siberia and the Far East a fully acceptable annual capacity for each refinery is 12,000,000 tons per year. Even high-capacity refineries with low-capacity supporting installations can effect large savings in capital investments, although in this case the operational expenses per ton of motor fuels would increase slightly for the consumer. In conclusion it is stated that an analysis of conditions reflecting Card 5/6

Optimum Capacity of New Refineries (Cont.)

the expansion of the USSR petroleum industry in the near future provides justification for the planned capacity of 12,000,000 tons per year for each new refinery. That figure is by no means a constant since the capacity of the refinery will have to be increased as the demand for petroleum products increases.

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Card 6/6

sov/65-59-4-5/14

AUTHORS: Agafonov, A.V., Basov, A.N., Manakov, N.Kh. and

Manshilin, V.V.

TITLE: Combined Plant for Fractional Distillation of Petroleum

and of Catalytic Cracking Residues on a Microspherical Natural Catalyst (Kombinirovannaya ustanovka pryamoy peregonki nefti i kataliticheskogo krekinga ostatochnogo syr'ya na mikrosfericheskom prirodnom katalizatore)

PERIODICAL: Khimiya i tekhnologiya topliv i masel, 1959, Nr 4,

pp 25-31 (USSR)

ABSTRACT: Petroleum refineries have to process asphalt-tar

substances of petroleum which can be extremely difficult. Processing methods hitherto applied use high temperatures (above 450°C) at high or low pressures. A high yield of tarry residues and poor quality gasoline or distillate fractions and petrols of low quality and also hard residues in the form of petroleum coke are obtained by thermo-cracking. The temperature is an important factor during thermal destructive processes. It has been found that temperatures should be selected to give fractions

Card 1/4 with octane numbers exceeding 70 and that the cetane

SOV/65-59-4-5/14 Combined Plant for Fractional Distillation of Petroleum and of Catalytic Cracking Residues on a Microspherical Natural Catalyst

> number of the diesel fuel fraction should not exceed 42 to 43. The VNII NP have developed an economical catalytic destructive process for the treatment of residual petroleum crudes which makes it possible to obtain high grade gasoline and diesel fuels in industrial quantities. The process was tested under laboratory, pilot plant and industrial conditions. The VNII NF is, in collaboration with the Giproneftezavod Institute, at present designing two plants where the simultaneous fractional distillation and catalytic cracking of the petroleum crude can be carried out, one with an annual capacity of 2 million tons and a second of 3 million tons. The lay-out of both factories will be the same as is shown in Fig 1. The asphalt-tar substances will be subjected to the direct action of aluminium silicate catalysts which will be sufficiently active to ensure decomposition of the high molecular petroleum fractions (boiling above 530 to 550°C). The light gas-oil fractions of the petroleum will not be decomposed and the cetane number of the diesel fuel

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SOV/65-59-4-5/14

Combined Plant for Fractional Distillation of Petroleum and of Catalytic Cracking Residues on a Microspherical Natural Catalyst

fraction, obtained during the process, should be 42 to 43 or higher. The newly-formed fraction of the gasoline should have an octane number of 76 to 78 and above. The crude petroleum or fuel oil can be directly supplied into the reactor. Various further improvements in the process are described. The percentage composition of the end product obtained on a natural microspherical catalyst in an industrial plant is given, as well as experimental data, obtained by VNII NP during 1958, on fuel oil subjected to catalytic cracking on a pilot plant. coke deposited on the catalyst can be separated by roasting at a temperature of about 600°C; the importance of the catalyst is discussed. By using pneumatic transport for the catalyst in a highly concentrated current it is possible to decrease the height of the plant and, therefore, to lower construction costs. regeneration of the catalyst is intensified. The considerable enlargement of the desorption zone in the reactor, and also the creation of a counter-current

Card 3/4

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Combined Plant for Fractional Distillation of Petroleum and of Catalytic Cracking Residues on a Microspherical Natural Catalyst

desorption zone in the regenerator for degasification and activation of the regenerated catalyst, decreases coke-formation and the yield of methane, gives higher grade gasoline and simplifies the further esparation of cracking gases. Practically all the heat, generated by burning the coke and other component gases, is utilised. These vapours are used as power and also for desorption or for heating. The plant is also equipped for utilising the effluents. Comparative technical and economical characteristics are listed in a table. The authors also refer to a relevant article by Sherwood which was published in "Petroleum", 1959, Nr 2. There are 2 figures, 1 table and 1 English reference.

Card 4/4

BASOV, A.H.; AROHOV, D.M.; NOREYKO, L.M.

Moonomic effectiveness of increasing the octane rating of automobile gasoline. Khim. i tekh.topl. i masel 4 no.3: 60-64 Nr 159. (MIRA 12:4)

l. Institut nefti AN SSSR i Gosudarstvennyy soyusnyy ordena Trudovogo Krasnogo Znameni nauchno-issledovatel'skiy avtomobil'nyy i avtomotornyy institut Gosplana SSSR. (Gasoline)

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BASOV, A.N.; KONSTANTINOV, B.P.; MYAGKOV, V.S.; TRAKTOVENKO, I.A.

Economic effect diesel fuel quality improvement. Khim.i tekh.topl.i masel 6 no.6:1-11 Je '61. (MIRA 14:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke nefti i gaza i polucheniyu iskusstvennogo shidkogo topliva.

(Diesel fuel)

BASOV, A.N., ZHABOTINSKIY, M.YE.

"Electron spin resenance of tribalent chromium ion in spinel and magnesium tunstate crystals."

Report submitted to the Third Intl. Symposium on Quantum Electronics Paris, France 11-15 Feb 1963

BASOV, A.N.; GOLINEV, M.P.; GUTTSAYT, Z.I.; PAZHITNOV, V.N.

Classification of crude oils according to qulaity and the differentiation of their prices. Khim.i tekh.topl. i masel 7 no.11:45-50 N '62.

(MIRA 15:12)

1. Vsesoyusnyy nauchno-issledovatel'skiy institut po pererabotke nefti i gasov i polucheniyu iskusstvennogo shidkogo topliva.

(Petroleum—Prices)

## BASOV, A.N.; GUTTSAYT, Z.I.; DAVYDOV, B.N.; KIRPICHEV, V.M.

Differentiation of industrial wholesale prices of motor fuels. Khim. i tekh. topl. i masel 8 no.9:46-51 S 163. (MIRA 16:11)

1. Vsesoyusnyy nauchno-issledovatel'skiy institut po pererabotke nefti i gazov i polucheniyu iskusstvennogo shidkogo topliva.

FEYGIN, S.A.; BASOV, A.N.; SHOLPO, I.N.; ZIL'BERMAN, F.Ya.

Economic prospect for the use of high-sulfur mazut by electric power plants. Khim.i tekh.topl.i masel 8 no.ll:43-49 N 163.
(MTRA 16:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke nefti i gazov i polucheniyu iskusstvennogo zhidkogo topliva.

## BLAGOVIDOV, I.F.; BASOV, A.N.

Prospects for the development of the petroleum refining industry and its contribution to the growth of a large-scale petrochemical industry. Khim. i tekh. topl. i masel 8 no.4: 1-5 Ap '63. (MIRA 16:6)

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(Petroleum—Refining) (Petroleum industry)

BASOV, A.N.; GUTTSAYT, Z.I.; ZLOTNIKOVA, L.G.; YUDAYEVA, G.V.

Changes in the methods of calculation of the cost of petroleum products. Khim. i tekh. topl. i masel 8 no.5:42-46 My 163. (MIRA 16:8)

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DAVYDOV, B.N.; BASOV, A.N.; GEL'MS, I.E.

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FEYGIN, S.A.; BASOV, A.N.; KOSTYUKOVSKAYA, S.B.; ELIF-AKHNAZAROV, T.Kh.; KLEVIETZV, H.A.; KOGAN, Yu.S.

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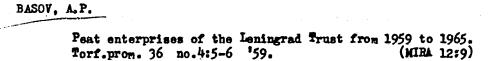
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(MIRA 11:10)

(Krylov, Fedor Nikolaevich, 1903-1958)

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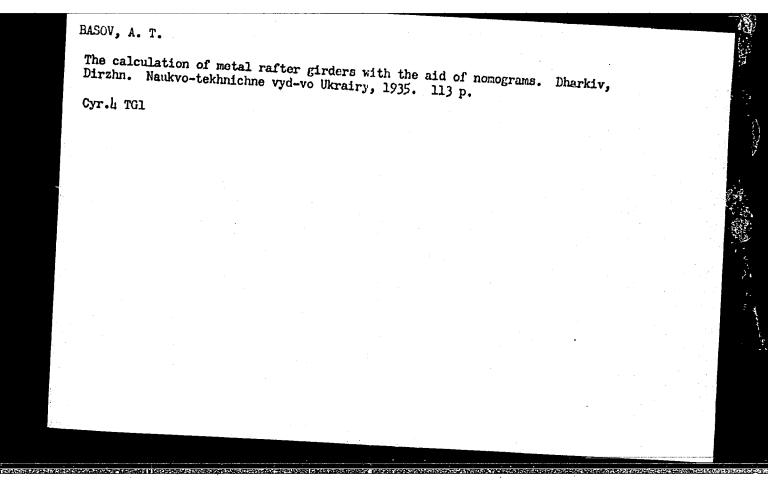
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1. Leningradskiy gosudarstvennyy trest torfyanoy promyshlennosti. (Leningrad Economic Region-Peat industry)

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1. Ivanovskiy gosudarstvennyy torfotrest (for Karakin). 2. Sverdlovskiy torfotrest (for Rodichev). 3. Gosplan USSR (for Putiy). 4. Leningradskiy gosudarstvennyy trest torfyanov promyshlennosti (for Basov). 5. Moskovskiy ohlastnoy sovnarkhoz (for Pyatakov). 6. Gosudarstvennyy nauchno-tekhnicheskiy komitet Estonskoy SSR (for Rautsep). 7. Ger'kovskiy sovnarkhoz (for Blagonravov). 8. Belorusskiy sovnarkhoz (for Grechikho, Shukhman). 9. Yaroslavskiy sovnarkhoz (for Druzhinin). 10. Bobruyskaya mashinno-meliorativnaya stantajya (for Loyko). 11. Gipromestprom Gosplana RSFSR (for Chernakov). 12. Mezhkolkhoznoye torfopredpriyatiye "Volosovskoye" Leningradskoy oblasti (for Shornikov). 13. Vsesoyuznyy nauchnoissledovatel'skiy institut torfyanoy promyshlennosti (for Sopin).

BASOV, A.V., insh.

or of railroad cars and the task of its further acceleration.

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1. Glavnyy inshener Glavnogo upravleniya dvisheniya Ministerstva putey soobshcheniya.

(Railroads--Management)

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Improve methods of organizing operational work. Vest. TSWII MPS 17 no.6:3-8 S 58. (MIRA 11:11)

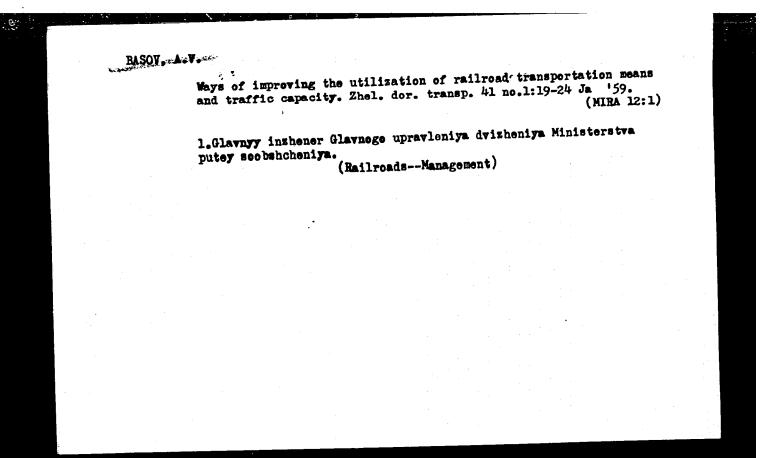
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[Train sheets] Grafik dvizheniia poezdov. Izd.2., perer. i dop.
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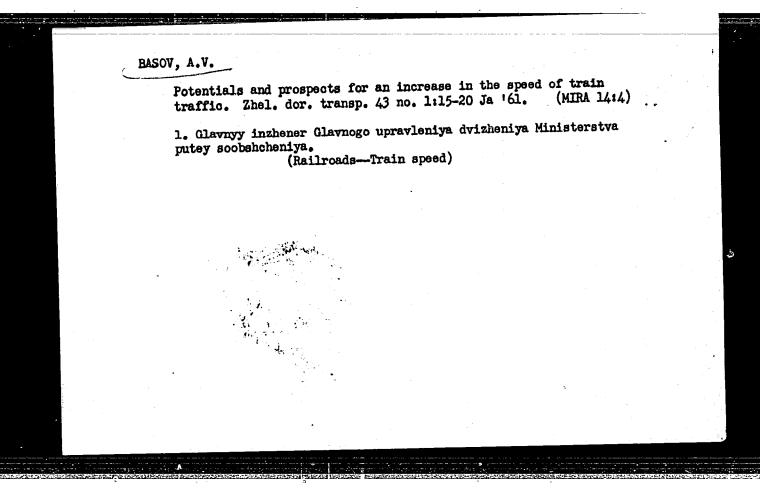
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(Railroads—Train dispatching)



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TIMOSHKOV, Vladimir Mitrofanovich; BASOV, A.V., inzh., retsenzent; MIL'DVARF, M.D., inzh., retsenzent; PEYSAKHZON, B.E., kand. tekhn.nauk; MANYUKOV, G.S., inzh., red.; USENKO, L.A., tekhn. red.

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Important tasks in the improvement of freight and commercial operations. Zhel.dor.transp. 45 no.8:15-20 Ag 163. (MIRA 16:9)

1. Nachal'nik Glavnogo gruzovogo upravleniya Ministerstva putey soobshcheniya. (Railroads—Management) (Railroads—Freight)

# BASOV, A.V.; NAUMOV, P.Y..

Improve the planning of freight transportation. Zhel.dor. transp. 45 no.10:94-95 0 '63. (MIRA 16:11)

1. Nachal'nik Glavnogo gruzovogo upravleniya Ministerstva putey soobshcheniya (for Basov). 2. Zamestitel' nachal'nika upravleniya planirovaniya perevozok Glavnogo gruznogo upravleniya Ministerstva putey soobshcheniya (for Naumov).

Organize efficiently the transportation of freight for agriculture. Zhel. dor. transp. 46 no.4:3-9 Ap '64.

(MIRA 17:6)

1. Naohal'nik Glavnogo gruzovogo upravleniya Ministeratva putey soobshcheniys.

Important requirements concerning the organization of transportation. Zhel. dor. transp. 47 no.1:7-12 Ja '65.

l. Nachal'nik Glavnogo gruzovogo upravleniya Ministerstva putey soobshcheniya.

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Elsov, A.v., kand.voyeunc-morslikh nauk kapitan 2-go ranga
International conference of historians. Mor. sbor. 48 no.6:
96 je 165. (MIRA 18:6)

BASOV, D.

Metal Economy (from the experience of the "G.KIMITROV"
Metallurgical State Plant (Metalworks) at RUSE. The Bulgarian Heavy
Industry, 6:53:June 55

## "APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203910011-4

USSE Mining Mathods
Excavating Machinery

"Excavating in the Kounradskiy Mine," D. L. Basov,
Mining Engr., 3½ pp

"Makh Trud' i Tyazh Rabot" No 8

Attributes difficulties in stripping operations to
varying thickness of the overburden. Best performance
has been obtained by using ordinary quarry excavators
which are easy to adjust. Sketches most advantageous
disposition of excavators, with two photographs of
operations at subject mine.

Mining Equipment  Mining Procedure  Mining Engr, Komrad Mining Adm, 3  **Gor Zhur** No 12  **Gor Zhur** No	BASOV, D. L.		PA 63/49T104	
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Kounrad Mine," D. L.  red Mining Adm, 3 pp  are used: (a) stratified  ag the whole area of a lower level. Describes d at 640-meter level where d at 640-meter level where ar were met. Lists method (3/491104)  fo pumps using a 2,960-ry of 100 cu m/hr.  63/49110	1 (4) 1 (4) 1 (5) (4) 1 (4) (4) 1 (4) (4)	(Cor pe nKV-, pacity	pment s at the gr, Kour gr, Kour gr, Kour jitation jitod) an jitod) an jitod an jito	
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BASOV, D. L.

"Mechanized Recovery of Bits," Gor. Zhur., No. 4, 1949 Mining Engr.